

Supporting Information

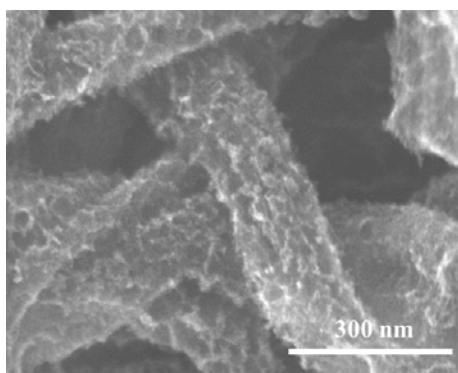


Fig. S1 The high-resolution SEM image of FM-HPCF sample.

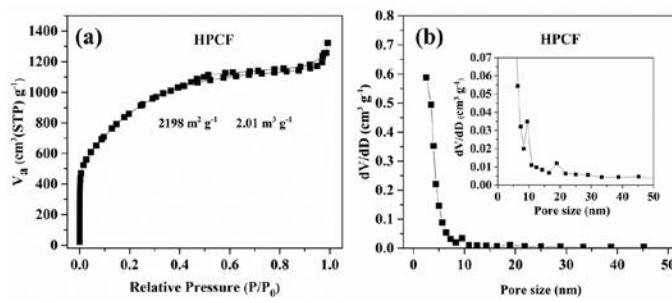


Fig. S2 The (a) N₂ adsorption-desorption isotherms and (b) BJH pore size distribution of HPCF.

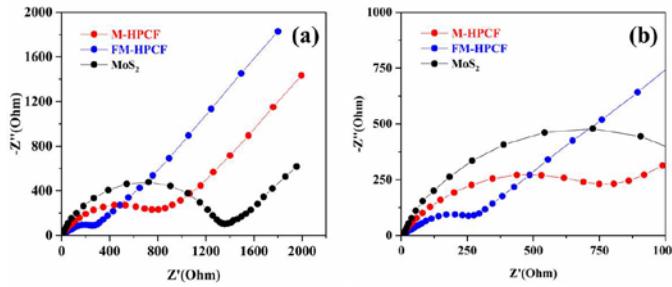


Fig. S3 (a) Electrochemical impedance spectra (EIS) and (b) partially enlarged EIS of FM-HPCF, M-HPCF and bulk MoS₂.

Table S1 Comparisons of selected performance metrics of MoS₂ SIBs electrodes.

Electrode materials	Specific capacity	Current density	Number of	Ref.
	(mAh g ⁻¹)	(mA g ⁻¹)	cycles	
Few-layered MoS ₂ /C	400	500	300	[22]
MoS ₂ @CF	240	1000	500	[25]
MoS ₂ /C	342	100	100	[26]
MoS ₂ /C-CS	337	1000	300	[27]
G@MoS ₂ -C	253	3000	4500	[36]
MoS ₂ /rGO	339	500	300	[44]
MoS ₂ /N-RGO	245	1000	1300	[45]
Few-layered MoS ₂	309	1000	1000	[51]
MoS ₂ /Carbon	490	100	50	[52]
MoS ₂ @C-RGO	637	50	50	[54]
MoS ₂ -rGO/HCS	443	1000	500	[56]
MoS ₂ /CDCFs	445	100	50	[58]
EG-MoS ₂	509	1000	250	[60]
MoS ₂ nanobelts	380	20000	100	[62]
S/MoS ₂	413	100	100	[65]
FM- HPCF	491	100	50	This work
	234	1000	3000	This work